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(12) **United States Plant Patent**
Blom

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(54) ***CHRYSANTHEMUM* PLANT NAMED 'ZANMUTOMIC'**

(50) Latin Name: ***Chrysanthemum×morifolium Ramat.***
Varietal Denomination: **Zanmutomic**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(52) **U.S. Cl.** **Plt./290**

(58) **Field of Classification Search** Plt./290
See application file for complete search history.

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmutomic' characterized by its medium sized blooms with bronze ray florets and prolific branching; natural season flower date September 814 13; blooming for a period of 5 weeks.

3 Drawing Sheets

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *chrysanthemum* plant, botanically known as *Chrysanthemum×morifolium* Ramat., and hereinafter referred to by the cultivar denomination 'Zanmutomic'. 'Zanmutomic' is a product of a breeding and selection program for outdoor pot mums (garden mums) which had the objective of creating new *chrysanthemum* cultivars with a double type inflorescence, a natural season flower date starting at September 8–13, blooming for a period of 5 weeks. 'Zanmutomic' is a seedling resulting from the crossing of the female parent id 2863 and male parent id 3393. Plants of 'Zanmutomic' differ from plants of the female parent in growth habit, that of the seedling is more ball shaped. Plants of 'Zanmutomic' differ from plants of the male parent in the following characteristics. (1) earlier blooming period of seedling (2) less vigor in seedling.

The new and distinct cultivar was discovered and selected as a flowering plant by Wilhelmus Bernardus Blom on a cultivated field in Rijsenhout, The Netherlands in 2005. The first act of asexual production of 'Zanmutomic' was accomplished when vegetative cuttings were used from the initial selection in 2005 and propagated further in a controlled environment in Rijsenhout, The Netherlands. The new cultivar has been found to retain its distinctive characteristics through successive propagations.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of *chrysanthemum* is shown in the accompanying drawings, the color being as nearly true as possible with color photographs of this type.

FIG. **1** shows a plant of the cultivar in full bloom.

FIG. **2** shows the various stages of bloom of the new cultivar.

FIG. **3** shows the various stages of foliage of the new cultivar.

DESCRIPTION OF THE INVENTION

The observations and measurements were gathered from plants grown out door in Rijsenhout, The Netherlands under natural day length and temperature and planted in week 22 in 2008. The natural blooming date of this crop was September 8–13. The average height of the plants was 25 cm. No growth retardants were used. No tests were done on disease or insect resistance or susceptibility. No tests were done on cold or drought tolerance. This new variety produces medium sized blooms with bronze ray florets blooming for a period of 5 weeks.

From the cultivars known to inventor the most similar existing cultivar in comparison to 'Zanmutomic' is 'Zanmusunset' (U.S. Plant Pat. No. 20,475). When 'Zanmusunset' and 'Zanmutomic' are being compared the following differences are noticed: The differences of 'Zanmusunset' and 'Zanmutomic' are (1) Number of ray-florets. And (2) Plant size. (1) The number of ray-florets in 'Zanmusunset' is higher than in those of 'Zanmutomic'. (2) The plants of 'Zanmusunset' are larger in size than those of 'Zanmutomic'. The following is a description of the plant and characteristics that distinguish 'Zanmutomic' as a new and distinct variety.

The color designations are taken from the plant itself. Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances. The color chart used in this description is: The Royal Horticultural Society Colour Chart, edition 2001.

TABLE 1

Botanical description of *Chrysanthemum* x*morifolium* Ramat. 'Zanmutomic'

Bud	
Size	Small; cross-section 0.5-0.7 cm, height 0.5 cm
Shape	Oblate

TABLE 1-continued

Botanical description of *Chrysanthemum* x*morifolium* Ramat. 'Zanmutomic'

Texture	Pubescent
Outside Color	Greyed-green 191A
Phyllaries	
Number	22-24, arranged in 3 rows
Shape	Elliptic
Apex	Acute
Base	Truncate
Margin	Entire
Color	Upper surface: Greyed-green 191A Lower surface: Greyed-green 191C
Length and width	5-7 mm; 2 mm
Texture	Pubescent
Inflorescence	
Type	Double
Height	2 cm
Diameter	5 cm
Peduncle length	8 cm
Peduncle color	Green N138C
Peduncle diameter	1 mm
Peduncle surface	Pubescent
Number per branch	Approx. 7-9 inflorescences
Flowering period individual bloom	Ca. 4 weeks
Seeds	Produced in small quantities, ovate, Greyed-brown 199A, length 1.5 mm, diameter 0.8 mm
Fragrance	Faint *chrysanthemum* odor
Color	
Center of inflorescence	Immature stage: Greyed-orange 172A Mature stage: Yellow-orange 21C
Color of upper surface of the ray-florets	Greyed-orange 172A
Color of the lower surface of the ray-florets	Greyed-orange 167C
Tonality from Distance	A garden mum with bronze inflorescences
Color of the ray-florets after aging of the plant	Greyed-orange 171D
Ray florets	
Texture	Upper and lower side smooth
Number	Ca. 130
Shape	Elliptic
Apex	Rounded
Base	Attenuate
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	3 mm
Ray-floret margin	Entire
Ray-floret length	2-3 cm
Ray-floret width	3-5 mm
Ratio length/width	High
Disc florets	
Disc diameter	2 mm
Number	Ca. 5 (only visible in mature inflorescences)
Shape	Tubular
Color	Yellow 11D at apex; Yellow green 150D at base
Length	Ca. 0.5 mm
Diameter	Ca. 0.3 mm
Receptacle	
Color	Green 138D
Shape	Conical raised
Height	4 mm
Diameter	3 mm

TABLE 1-continued

Botanical description of *Chrysanthemum* x*morifolium* Ramat. 'Zanmutomic'

Reproductive Organs	
Androecium	Present in disc florets only
Stamen length	3 mm
Stamen color	Yellow-green 144A
Anther color	Yellow 3A
Pollen	Scarce
Pollen	Yellow 12A
Gynoecium	Present in both ray and disc florets
Style color	Yellow-green 154C
Style Length	3 mm
Stigma color	Yellow 7A
Stigma Width	1 mm
Ovary	Enclosed in calyx
Plant	
Form	Grown as a potmum, outdoor raised and mounded
Growth habit	Spherical shape
Growth rate	Medium
Height	25 cm
Width	45 cm
Stem Color	Greyed-brown 199A
Stem Strength	Strong
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Not observed
Internode length	5-10 mm
Length of lateral branch	From top to bottom 20-22 cm
Lateral branch color	Green 137 C
Lateral branch brittleness	Medium
Lateral branch diameter	2 mm
Branching (average number of lateral branches)	Prolific with 9 breaks after pinching
Natural season blooming date	September 8-13 to October 13-18
Foliage	
Leaf color	Upper side: Green 139A to 139B Lower side: Green 138B
Color midvein	Upper side: Yellow-green 147D Lower side: Yellow-green 148D
Size	Small.; length 4-5 cm, width 2.5-3 cm
Quantity (number per lateral branch)	28-30
Shape	Elliptic
Texture upper side	Sparsely pubescent
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Serrated
Shape of Base of Sinus Between Lateral Lobes	Rounded
Margin of Sinus Between Lateral Lobes	Diverging
Shape of Base	Truncate
Apex	Mucronulate
Petiole length	1.5-2 cm
Petiole diameter	2 mm
Petiole color	Yellow-green 147D

TABLE 2

Differences with the comparison variety

	'Zanmutomic'	'Zanmusunset'
Number of ray-florets	Ca. 130	220-230
Plant height	25 cm	40-45 cm
Plant width	45 cm	55 cm

I claim:

1. A new and distinct variety of *chrysanthemum* plant as described and illustrated.

* * * * *

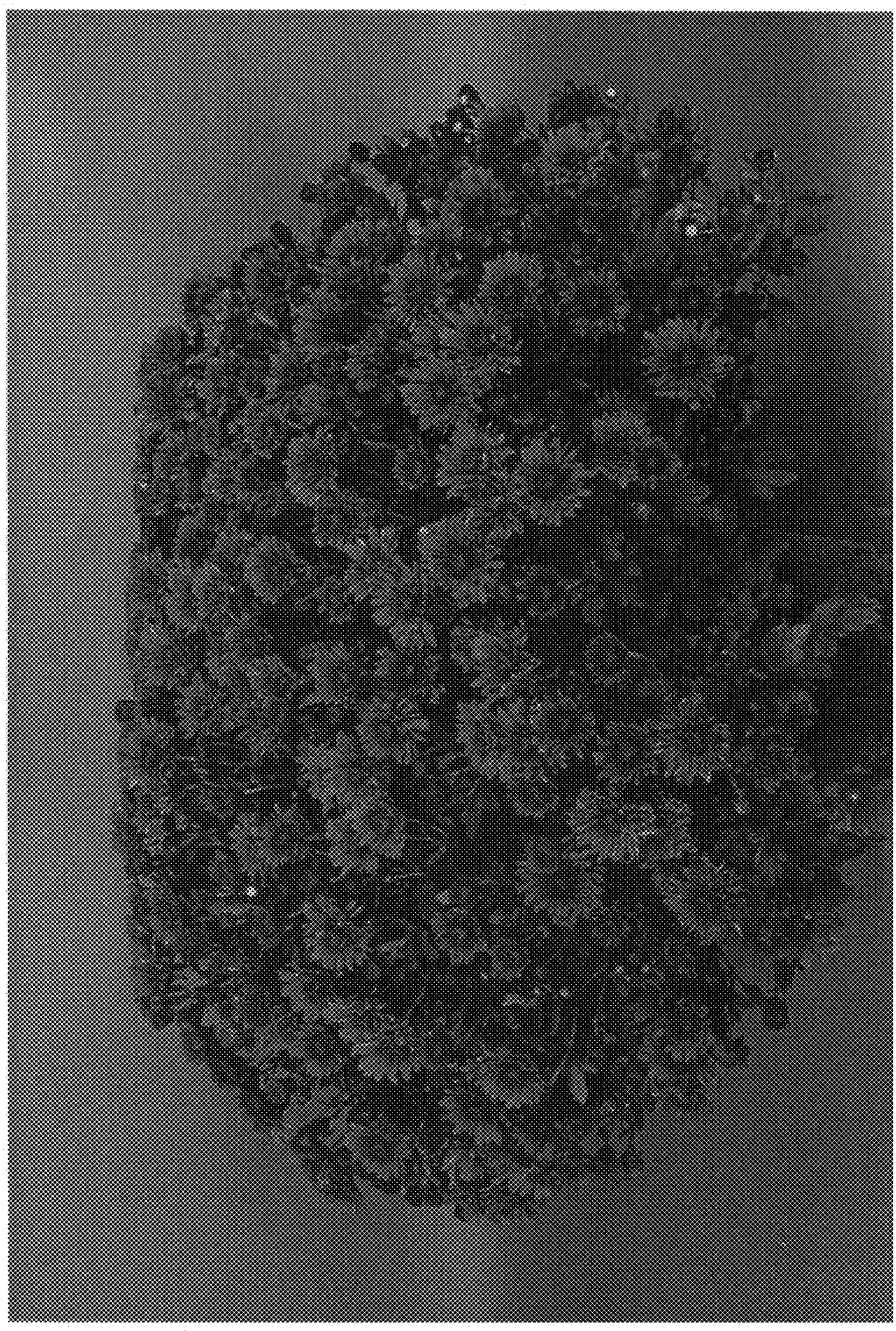

FIG. 1

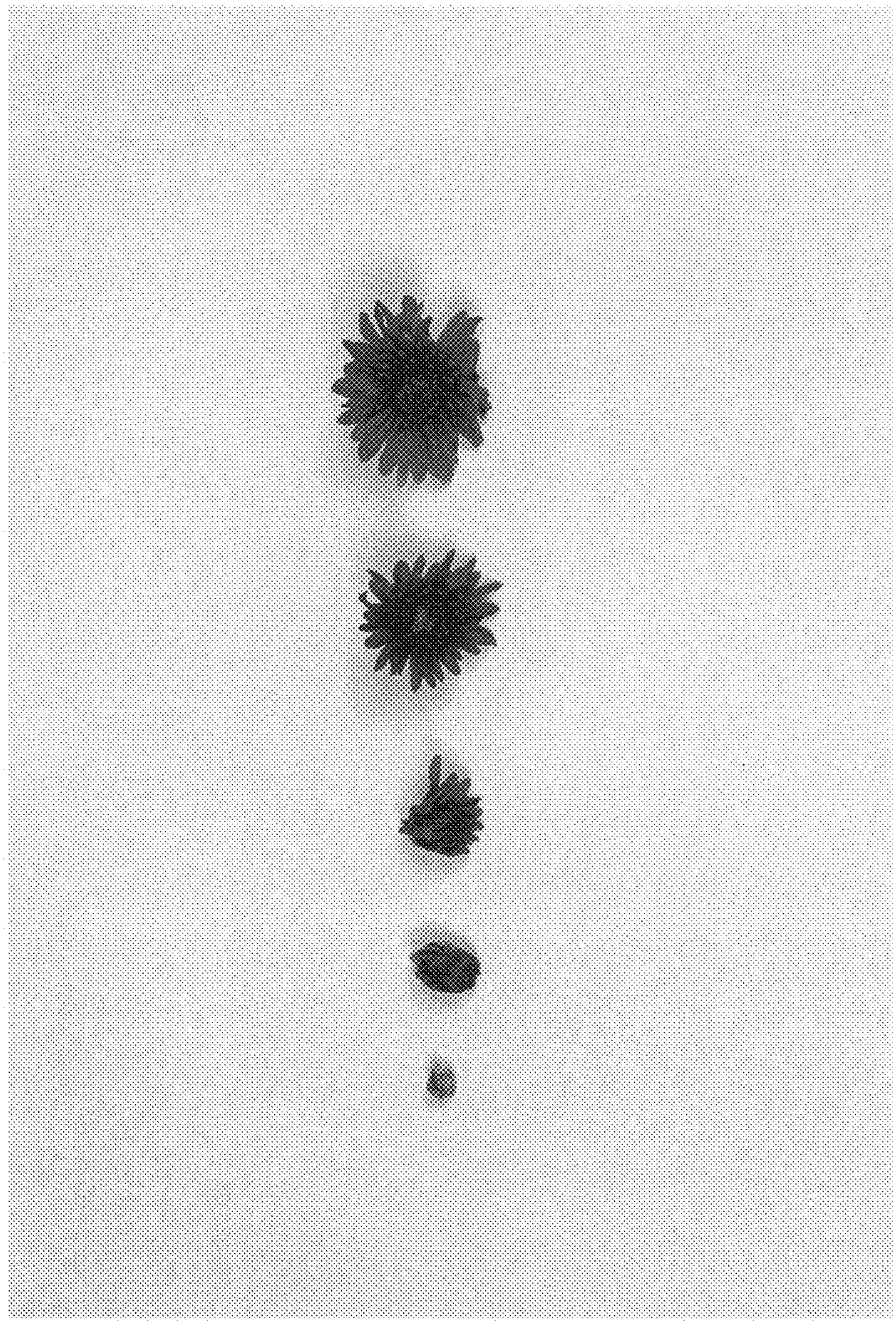

FIG. 2

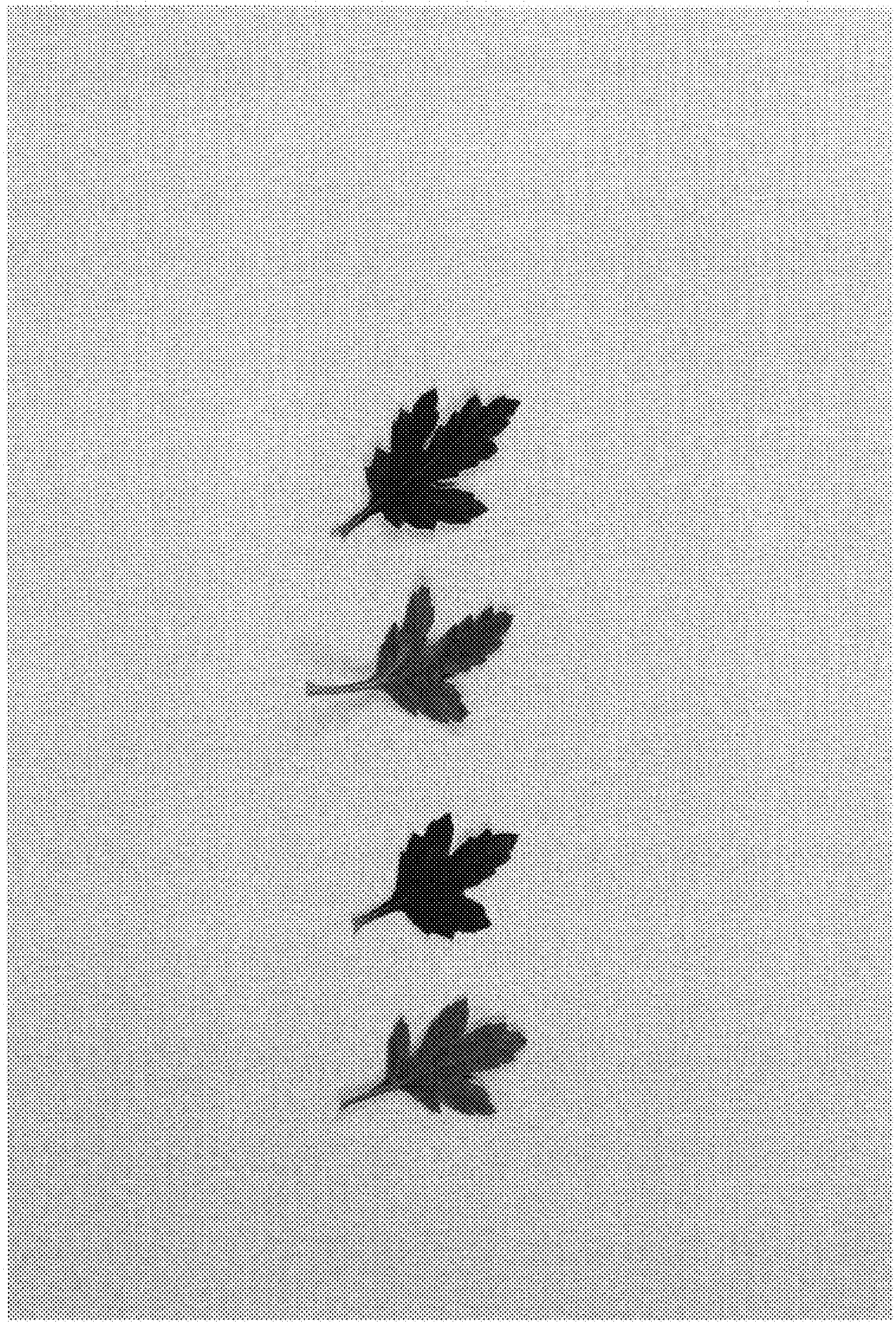

FIG. 3